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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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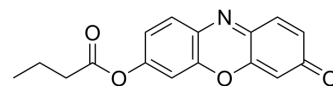
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Resorufin butyrate

Cat. No.:	HY-116583
CAS No.:	15585-42-9
Molecular Formula:	C ₁₆ H ₁₃ NO ₄
Molecular Weight:	283.28
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 5 mg/mL (17.65 mM)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.5301 mL	17.6504 mL	35.3008 mL
	5 mM		0.7060 mL	3.5301 mL	7.0602 mL
	10 mM		0.3530 mL	1.7650 mL	3.5301 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Resorufin butyrate is a fluorogenic substrate for triglyceride lipases and cholinesterase (Ex=570 nm, Em=580 nm) ^{[1][2][3]} .
IC ₅₀ & Target	Triglyceride lipases, cholinesterase ^[1]
In Vitro	Resorufin butyrate (2.3 μM) displays a linear increase in fluorescence over 60 min (conducted in 384-well plates using 12 nM of bLPL enzyme and substrate in PBS, pH 7.5, 5% DMSO) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. J Biomol Screen, et al. Resorufin butyrate as a soluble and monomeric high-throughput substrate for a triglyceride lipase. J Biomol Screen. 2012 Feb;17(2):245-51.
- [2]. Guilbault, G.G., et al. Resorufin butyrate and indoxyl acetate as fluorogenic substrates for cholinesterase. Anal Chem. 1965 Jan;37:120-3.

[3]. J.Hofmann, et al. Immobilized enzyme kinetics analyzed by flow-through microfluorimetry : Resorufin- β -d-galactopyranoside as a New Fluorogenic Substrate for β -Galactosidase. Anal. Chim. Acta 163, 67-72 (1984).

Caution: Product has not been fully validated for medical applications. For research use only.

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